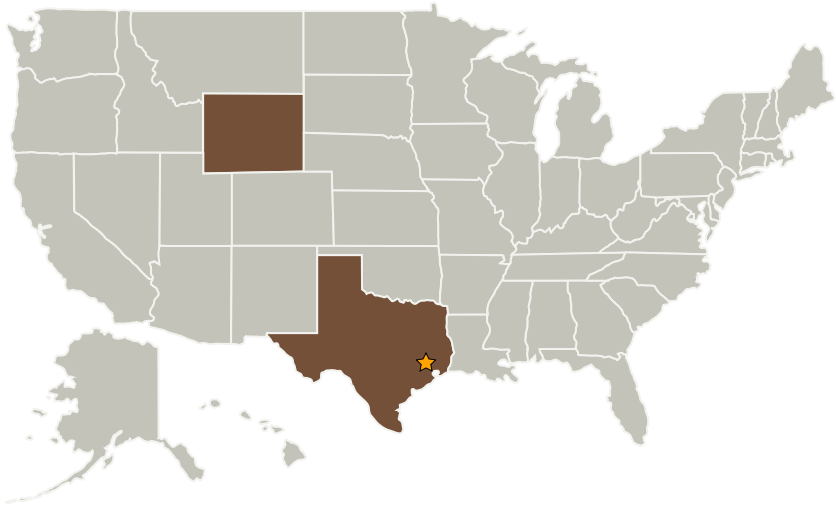
VOST Flow-Control Valve, Phase I

Completed Technology Project (2006 - 2006)

Project Introduction

A cryogenic flow-control valve based on Venturi-Offset Technology (VOST) will be designed and modeled. VOST provides precise linear flow control within a hermetically sealed, thermally efficient, cylindrical envelope. Intended to demonstrate a breakthrough in cryogenic flow control, the valve has no external leak paths, holds position without power and has no dynamic seals. With only two moving parts, the valve is inherently simple and robust.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Big Horn Valve, Inc.	Supporting Organization	Industry	Sheridan, Wyoming

Primary U.S. Work Locations	
Texas	Wyoming

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX01 Propulsion Systems
  - TX01.1 Chemical Space Propulsion
    - TX01.1.1 Integrated Systems and Ancillary Technologies